

one of the inventors ~~or~~
did not sign the declaration

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9/9/97 9/9/98

WHAT IS CLAIMED

1. A strapless lead frame/heat slug combination, comprising:

a plurality of lead frame leads distributed around a semiconductor die mount area, and extending into the area normally occupied by ^{112 2nd} the lead frame strap; and

a heat slug attached under the lead frame with tape providing the die mount area.

2. The strapless lead frame according to Claim 1, wherein ~~the~~ semiconductor die has four sides and ~~the~~ lead frame leads are evenly distributed on each of the four sides.

3. The strapless lead frame according to Claim 1, wherein the lead frame has four sides and two of ~~said~~ four sides have a different number of leads from two other sides.

4. The strapless lead frame according to Claim 1, where in ~~said~~ semiconductor die has a different number of bond pads on adjacent sides, and at least one of ~~said~~ bond pads is attached to a bond wire attached to a lead frame lead on a side of ~~the~~ lead frame adjacent to ~~the~~ side of ~~the~~ semiconductor die on with ~~the~~ bond pad is located.

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5. A strapless lead frame for use with heat slug packages, comprising:

a plurality of lead frame leads distributed around a semiconductor die mount area, and extending into the area normally occupied by ^{the lead and} the lead frame strap;

a heat slug attached under ~~the~~ lead frame with tape providing a rectangular die mount area, there being ~~the~~ same number of lead frame leads on opposite sides of ~~the~~ lead frame and a different number of lead frame leads on adjacent sides of ~~the~~ lead frame.

6. The strapless lead frame according to Claim 5, including a semiconductor die with a different number of bond pads on adjacent sides and ~~the~~ same number of bond pads on opposite sides, and at least one of ~~said~~ bond pads is attached to a bond wire attached to a lead frame lead on a side of ~~the~~ lead frame adjacent to ~~the~~ side of the semiconductor die on with ~~the~~ bond pad is located.